II. Amendments to the Claims

Please amend claims 21 and 29-37 and add new claim 38, as shown below in a

complete listing of all of the claims of the application with the status of each claim noted

parenthetically in accordance with 37 C.F.R. § 1.121. This listing of claims will replace all prior

revisions and listings of claims in the application:

Claims 1-20. (canceled)

C

(currently amended) A method for grafting an unsaturated monomer onto a Claim 21.

polysaccharide comprising the steps of: (1) forming a mixture comprised of an unsaturated

monomer and a water soluble or water dispersible polysaccharide; (2) irradiating the mixture

with an amount of electron beam radiation sufficient to form an unsaturated monomer-water

soluble or water dispersible polysaccharide graft copolymer, wherein and depolymerized the

graft copolymer is depolymerized to a molecular weight lower than the molecular weight of the

ungrafted polysaccharide, and the polysaccharide in the copolymer has a molecular weight of

no more than 700,000 Daltons.

(previously presented) The method of claim 21, wherein the unsaturated Claim 22.

monomer is a vinyl monomer having a functional group.

(previously presented) The method of claim 21, wherein the polysaccharide is Claim 23.

selected from the group consisting of guar, cationic guar, nonionic guar, locust bean gum, tara

gum, amylose, amylopectin, xanthan and xanthan gum.

Claim 24. (previously presented) The method of claim 22, wherein the polysaccharide is

guar.

(previously presented) The method of claim 22, wherein the polysaccharide is Claim 25.

a cellulose containing at least one functional group.

(previously presented) The method of claim 22, wherein the functional group is Claim 26.

a carboxylate, a phosphonate, or a sulfonate group.

(previously presented) The method of claim 22, wherein the vinyl monomer is Claim 27.

methacrylamidopropyltrimethylammonium chloride.

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- Claim 28. (previously presented) The method of claim 22, wherein the functional group is a quaternary ammonium group.
- Claim 29. (currently amended) A <u>graft copolymer of a polysaccharide grafted with and an</u> unsaturated monomer, said grafted <u>polysaccharide copolymer</u> being dispersible in water and having a molecular weight lower than the molecular weight of the ungrafted polysaccharide.
- Claim 30. (currently amended) The grafted polysaccharide <u>copolymer</u> of claim 29, wherein the polysaccharide is selected from the group consisting of cellulose containing at least one functional group, galactomannan and xanthan.
- Claim 31. (currently amended) The grafted polysaccharide copolymer of claim 30, wherein the polysaccharide is a cellulose containing at least one functional group.
- Claim 32. (currently amended) The grafted polysaccharide copolymer of claim 29, wherein the unsaturated monomer is a vinyl monomer.
- Claim 33. (currently amended) The grafted polysaccharide copolymer of claim 32, wherein the vinyl monomer is selected from a carboxylated vinyl monomer, a sulfonated vinyl monomer, a phosphonated vinyl monomer and a quaternary ammonium vinyl monomer.
- Claim 34. (currently amended) The grafted polysaccharide copolymer of claim 33, wherein the vinyl monomer contains a quaternary ammonium group.
- Claim 35. (currently amended) The grafted polysaccharide copolymer of claim 29, wherein the polysaccharide is selected from the group consisting of guar, cationic guar, nonionic guar, locust bean gum, tara gum, xanthan gum and amylose.
- Claim 36. (currently amended) The grafted polysaccharide copolymer of claim 29, wherein the polysaccharide is selected from the group consisting of guar and hydroxypropyl guar.
- Claim 37. (currently amended) A cosmetic composition comprising the grafted polysaccharide copolymer of claim 29.

PATENT

Serial No. 10/607,079; Filing Date: June 25, 2003 Examiner: Everett White; Art Unit: 1623 Attorney Docket No. Rhodia.02036 US

Claim 38. (new) A composition comprising (1) a copolymer formed from a polysaccharide that is grafted to an unsaturated monomer, the copolymer being dispersible in water and the grafted polysaccharide having a molecular weight lower than 700,000 Daltons and (2) an ungrafted polysaccharide, wherein the molecular weight of the ungrafted polysaccharide is more than 2,000,000 Daltons.